

IN THE CLAIMS

1 (Currently Amended). A system, comprising:

a decoder to decode encoded video information having a first format into intermediate video information and to extract motion vectors from the encoded video information;

a digital-to-analog converter to convert said intermediate video information to analog data;

an analog-to-digital converter to convert said analog data to digital data;

a compression block to encode the digital data into output video information having a second format using the motion vectors extracted from the encoded video information, said compression block to compensate for errors, introduced by the digital-to-analog and analog-to-digital converters, by performing a localized motion search; and

~~a rate control unit to adjust a bit rate of an output from said compression block; using quantization data from said decoder; and~~

a device to store the output video information from the compression block.

2 (Original). The system of claim 1, wherein the first format and the second format have a common format.

3 (Original). The system of claim 2, wherein the common format includes MPEG-1, MPEG-2, MPEG-4, H.264, Windows Media Video version 9 (WMV9) or Advanced Video System (AVS).

4 (Original). The system of claim 1, wherein the first format includes MPEG-2, and wherein the second format includes H.264.

5 (Original). The system of claim 1, wherein the decoder is arranged to extract quantization data, picture data, or error data from the encoded video information.

Claim 6 (Canceled).

7 (Original). The system of claim 1, wherein the intermediate video information includes digital pixel information.

8 (Original). The system of claim 1, further including:
an output port to output the intermediate video information.

Claims 9-23 (Canceled).

24 (Currently Amended). A method, comprising:
obtaining at least motion vectors from an encoded video stream;
decoding the encoded video stream to generate a decoded digital ~~an analog~~ video stream;
converting the decoded digital video stream to an analog video stream;
converting the analog video stream to a second digital video stream;
compensating for errors introduced by the analog-to-digital and digital-to-analog conversions by performing a localized motion search of said second digital video stream; and
encoding the second digital ~~analog~~ video stream to generate an output video stream using the motion vectors obtained from the encoded video stream;~~;~~ and
~~adjusting a bit rate of the compressed digital stream using quantization data obtained from the analog video stream.~~

25 (Original). The method of claim 24, wherein the obtaining further includes obtaining quantization data and picture data from the encoded video stream.

26 (Original). The method of claim 25, further comprising:
controlling a rate of the encoding using the quantization data and the picture data.

27 (Original). The method of claim 24, further comprising:
storing the output video stream.